Daily Diary Report by Bid Item

Contract No.: **04-0120F4**
Diary #: **607** **Const Calendar Day:** 21 **Date:** **25-Jun-2012** **Monday**
Inspector Name: **Bruce, Matt** **Title:** **Transportation Engineer**
Inspection Type: Continuous
Shift Hours: 05:30 am 04:30 pm **Break:** 01:30 **Over Time:** 02:00
Federal ID:
Location:
Reviewer: **Schmitt, Alex** **Approved Date:** **Status:** Submit

04-0120F4
04-SF-80-13.2/13.9
Self-Anchored
Suspension Bridge

Weather

Temperature **7 AM** 50 - 60 **12 PM** 60 - 70 **4PM** 60 - 70
Precipitation 0.00" **Condition** Partly cloudy in the AM to mostly sunny in the PM

Working Day ☐ If no, explain:

Diary: Dispute ☐

Work description.

- Surveyed the movement of the E2 cap beam and OBG lift 13E/W. This survey is to supplement the points obtained for the Shear Key and Bearing surveys done recently. Four sets of shots were taken where two targets were placed on the E2 cap beam approximately at the centerline. Similarly two points were shot on the underside of the OBG where the location of both points was on the west side of the innermost (closest to bridge centerline) temporary bearings. The following is the steel temperatures for each shot:

Shot / Time	Ambient Temperature (F)	Steel Temp / location taken (F)	Conditions
1st / 6:08am	56	59 - Ave / OBG lift 13E	Partly Cloudy
2nd / 10:40am	60	92 - 110 Range / E-Line near Tower 59 - 60 / Temp Truss & OBG bottom	Partly Cloudy Shade
3rd / 2:10pm	59	102 -122 Range / W-Line near Tower	Mostly Sunny
4th / 4:20pm	59	98 - 111 Range / E-Line near CTConex	Mostly Sunny

Unofficially both the cap beam and OBG moved together 3" to the east from start to finish, and the movement at the second reading was approximately 1" to the east.

- Shot the following OBG punchmarks placed over the E2 cap for the Shear Key/Bearings using the automatic level:

SHEAR KEYS/ BEARINGS

EPP118CL	EPP118N	WPP118CL	WPP118S
EPP119CL	EPP119N	WPP119CL	WPP119S
EPP120CL	EPP120N	WPP120CL	WPP120S
EPP126CL	CB18E119	CB18W119	

I conducted the survey independently as the bipod was used to support the Philly rod. The level run was done again since the last level run on Friday didn't close within an acceptable tolerance.

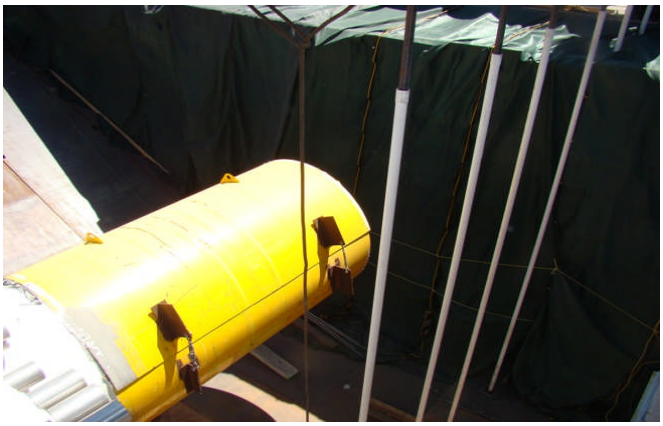
The survey began at 7:40am and was completed at 9:30am. The official time of sunrise per weather.com was 5:49am. The conditions observed at the time of the survey were partly cloudy. The ambient

temperature was 59F. Similarly the steel temperature measured in the vicinity of the survey was 59F to 92F. The wind speed was measured from the WSW direction at 5mph.

The elevations in this location are over the E2 cap beam which fully supports OBG lifts 13E/13W. The expansion of the steel doesn't effect elevation change as it is a lateral movement on a fully supported OBG bridge deck.

- Continued to process the data gathered today and from previous days related to the pre load transfer scanning survey, and the E2 Shear Key/Bearing surveys.

Attachment



The protective cover placed over the face of the W-Line Hinge K matchcast face for sandblasting the joint.

Section of OBG lift 12E that was placed after the swingout operations of the South Mainspan cable were completed.

The support craddle is still in place under OBG lift 14E.

Looking up at the position of the sun during mid-day which is directly over the bridge deck and cable.

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The North Mainspan cable swing out support frame looking north.

The missing deck section of OBG lift 12W that was left out to facilitate the free hang geometry of the North Mainspan cable.

Trimble S8 total station occupying TD2001 on the T1 foundation taking shots on the E2 cap beam and the OBG at sunrise.

Conditions observed during the fourth and final shot on the E2 cap beam and OBG lift 13E/W.

Conditions observed during the second shot on the E2 cap beam and OBG lift 13E/W.

Conditions observed during the level run on OBG punchmarks located over the E2 cap beam.